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John Ims

January 1999 interactions, Volume 6 Issue 1

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2 Performance comparison of battery power consumption in wireless multiple access protocols

Jyh-Cheng Chen, Krishna M. Sivalingam, Prathima Agrawal

December 1999 Wireless Networks, Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: Pdf (300.56 KB) Additional Information: full citation, references, cited by, index terms

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Helen Ashman

September 2000 Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM

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Reducing communication overhead is extremely important in distributed-memory message-passing architectures. In this article, we present a technique to improve communication that considers data access patterns of the entire program. Our approach is based ...

Keywords: communication optimizations, data-flow analysis, distributed-memory machines, global optimizations, message vectorization, parallelism

- 5 [Modeling statecharts and activitycharts as signal equations](#)
 J.-R. Beauvais, E. Ruten, T. Gautier, B. Houdebine, P. Le Guernic, Y.-M. Tang
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Publisher: ACM Request Permissions
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The languages for modeling reactive systems are of different styles, like the imperative, state-based ones and the declarative, data-flow ones. They are adapted to different application domains. This paper, through the example of the languages Statecharts ...

Keywords: behavioral modeling, statecharts, reactive systems, signal, synchronous languages, statecharts

- 6 [A practical soft type system for scheme](#)
 Andrew K. Wright, Robert Cartwright
 January 1997 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 1

Publisher: ACM Full text available:  Pdf (624.50 KB) Additional Information: full citation, abstract, references, cited by, index terms**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 52, Downloads (Overall): 491, Citation Count: 19

A soft type system infers types for the procedures and data structures of dynamically typed programs. Like conventional static types, soft types express program invariants and thereby provide valuable information for program optimization ...

Keywords: run-time checks, soft typing**7** [Fast incremental maintenance of approximate histograms](#) Philip B. Gibbons, Yossi Matias, Viswanath Poosala September 2002 **Transactions on Database Systems (TODS)**, Volume 27 Issue 3**Publisher:** ACM Full text available:  Pdf (472.82 KB) Additional Information: full citation, abstract, references, cited by, index terms**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 69, Downloads (Overall): 804, Citation Count: 23

Many commercial database systems maintain histograms to summarize the contents of large relations and permit efficient estimation of query result sizes for use in query optimizers. Delaying the propagation of database updates to the histogram often introduces ...

Keywords: Approximation, histograms, incremental maintenance, query optimization, sampling**8** [Model checking multi-agent systems with MABLE](#) Michael Wooldridge, Michael Fisher, Marc Philippe Hugot, Simon Parsons July 2002 **AAMAS '02: Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2****Publisher:** ACM Full text available:  Pdf (130.73 KB) Additional Information: full citation, abstract, references, cited by, index terms**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 45, Downloads (Overall): 477, Citation Count: 24

MABLE is a language for the design and automatic verification of multi-agent systems. MABLE is essentially a conventional imperative programming language, enriched by constructs from the agent-oriented programming paradigm. A MABLE system contains a ...

Keywords: agents, model checking, programming, verification

9 Using value prediction to increase the power of speculative execution hardware

 [Freddy Gabbay, Avi Mendelson](#)

 August 1998 [Transactions on Computer Systems \(TOCS\)](#), Volume 16 Issue 3

Publisher: ACM 

Full text available:  Pdf (289.77 KB)

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Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 54, Downloads (Overall): 600, Citation Count: 9

This article presents an experimental and analytical study of value prediction and its impact on speculative execution in superscalar microprocessors. Value prediction is a new paradigm that suggests predicting outcome values of operations (at run-time) ...

Keywords: speculative execution, stride value prediction, value prediction

10 Probabilistic agent programs

 [Jürgen Dix, Mirco Nanni, V. S. Subrahmanian](#)

 October 2000 [Transactions on Computational Logic \(TOCL\)](#), Volume 1 Issue 2

Publisher: ACM 

Full text available:  Pdf (251.40 KB)

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Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 30, Downloads (Overall): 525, Citation Count: 13

Agents are small programs that autonomously take actions based on changes in their environment or "state". Over the last few years, there has been an increasing number of efforts to build agents that can interact and/or collaborate with other ...

Keywords: logic programming, multi-agent reasoning, probabilistic reasoning, uncertainty

11 An Infrastructure for Web-Based Computer-Assisted Learning

 [Mike Joy, Boris Muzykantskii, Simon Pawles, Michael Evans](#)

 December 2002 [Journal on Educational Resources in Computing \(JERIC\)](#), Volume 2 Issue 4

Publisher: ACM 

Full text available:  Pdf (128.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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We describe an initiative under way at Warwick to provide a technical foundation for computer-aided learning and computer-assisted assessment tools, which allows a rich dialogue sensitive to individual students' response patterns. The system distinguishes ...

Keywords: CAA, CAL, DTD, XML, markup

12 Schedulability-driven performance analysis of multiple mode embedded real-time systems

 Youngsoo Shin, Daehong Kim, Kyoung Choi

 June 2000 DAC '00: Proceedings of the 37th Annual Design Automation Conference

Publisher: ACM 

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Providing multiple modes to support dynamically changing environments, standards, and new services is prevalent in embedded systems, especially in mobile radio systems. Because such a system frequently contains time-constrained tasks, it is important ...

13 Parameter passing and control stack management in Prolog implementation revisited

 Neng-Fa Zhou

 November 1996 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 18 Issue 6

Publisher: ACM 

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Parameter passing and control stack management are two of the crucial issues in Prolog implementation. In the Warren Abstract Machine (WAM), the most widely used abstract machine for Prolog implementation, arguments are passed through argument registers, ...

Keywords: abstract machine, prolog

14 Solving shape-analysis problems in languages with destructive updating

 Mooly Sagiv, Thomas Reps, Reinhard Wilhelm

 January 1998 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 1

Publisher: ACM 

Full text available:  Pdf (703.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Downloads (Overall): 524, Citation Count: 74

This article concerns the static analysis of programs that perform destructive updating on heap-allocated storage. We give an algorithm that uses finite shape graphs to approximate conservatively the possible "shapes" that heap-allocated ...

Keywords: abstract interpretation, alias analysis, dataflow analysis, destructive updating, pointer analysis, shape analysis, shape graphs, static analysis

15 [Neural methods for dynamic branch prediction](#)

Daniel A. Jiménez, Calvin Lin

November 2002 [Transactions on Computer Systems \(TOCS\)](#), Volume 20 Issue 4

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This article presents a new and highly accurate method for branch prediction. The key idea is to use one of the simplest possible neural methods, the perceptron, as an alternative to the commonly used two-bit counters. The source of our predictor's accuracy ...

Keywords: Branch prediction, neural networks

16 [Principled design of the modern Web architecture](#)

Roy T. Fielding, Richard N. Taylor

May 2002 [Transactions on Internet Technology \(TOIT\)](#), Volume 2 Issue 2

Publisher: ACM Request Permissions

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The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, ...

Keywords: Network-based applications, REST, World Wide Web

17 On type systems for object-oriented database programming languages

 [Yuri Leontiev](#), [M. Tamer Özsu](#), [Duane Szafron](#)

December 2002

Computing Surveys (CSUR) , Volume 34 Issue 4**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (346.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 202, Downloads (Overall): 2598, Citation Count: 3

The concept of an object-oriented database programming language (OODBPL) is appealing because it has the potential of combining the advantages of object orientation and database programming to yield a powerful and universal programming language design. ...

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing**18 Design issues for general-purpose adaptive hypermedia systems**

 [Hongling Wu](#), [Erik de Kort](#), [Paul De Bra](#)

September 2001 **HYPertext '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia****Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (290.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 36, Downloads (Overall): 582, Citation Count: 11

A hypermedia application offers its users much freedom to navigate through a large hyperspace. For authors finding a good compromise between offering navigational freedom and offering guidance is difficult, especially in applications that target a broad ...

Keywords: active databases, adaptation rules, adaptive hypermedia, confluence, termination, user modeling**19 Interprocedural pointer alias analysis**

 [Michael Hind](#), [Michael Burke](#), [Paul Carini](#), [Jong-Dae Choi](#)

July 1999 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 21 Issue 4**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (502.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 142, Downloads (Overall): 1057, Citation Count: 37

We present practical approximation methods for computing and representing interprocedural aliases for

a program written in a language that includes pointers, reference parameters, and recursion. We present the following contributions: (1) a framework ...

Keywords: interprocedural analysis, pointer aliasing, program analysis

- 20 A text-compression-based method for code size minimization in embedded systems

 Stan Liag, Srinivas Devadas, Kurt Keutzer

 January 1999 **Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 4 Issue 1

Publisher: ACM  Request Permissions

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We address the problem of code-size minimization in VLSI systems with embedded DSP processors. Reducing code size reduces the production cost of embedded systems we use data-compression methods to develop code-size minimization strategies. In our framework, ...

Keywords: code size optimization, compression

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Reducing communication overhead is extremely important in distributed-memory message-passing

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Keywords: communication optimizations, data-flow analysis, distributed-memory machines, global optimizations, message vectorization, parallelism

3 Modeling statecharts and activitycharts as signal equations

 J.-R. Beauvais, E. Ruttent, T. Gautier, R. Houdebine, P. Le Guernic, Y.-M. Tang

 October 2001 *Transactions on Software Engineering and Methodology (TOSEM)*, Volume 10 Issue 4

Publisher: ACM 

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 Andrew K. Wright, Robert Cartwright

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A soft type system infers types for the procedures and data structures of dynamically typed programs. Like conventional static types, soft types express program invariants and thereby provide valuable information for program optimization ...

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5 Fast incremental maintenance of approximate histograms

 Philip B. Gibbons, Yossi Matias, Viswanath Poosala

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6 Model checking multi-agent systems with MABLE

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◆ July 2002 **AAMAS '02: Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**

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 **Freddy Gabbay, Avi Mendelson**

◆ August 1998 **Transactions on Computer Systems (TOCS)**, Volume 16 Issue 3

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Jürgen Dix, Mirco Nanni, V. S. Subrahmanian

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11 [Solving shape-analysis problems in languages with destructive updating](#)

 Mooly Sagiv, Thomas Reps, Reinhard Wilhelm

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 Yuri Leontiev, M. Tamer Özsu, Duane Szafron

 December 2002 **Computing Surveys (CSUR)**, Volume 34 Issue 4

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14 Design issues for general-purpose adaptive hypermedia systems

 Hongling Wu, Erik de Kort, Paul De Bra

 September 2001 **HYPertext '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia**

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A hypermedia application offers its users much freedom to navigate through a large hyperspace. For authors finding a good compromise between offering navigational freedom and offering guidance is difficult, especially in applications that target a broad ...

Keywords: active databases, adaptation rules, adaptive hypermedia, confluence, termination, user modeling

15 interprocedural pointer alias analysis

 Michael Hind, Michael Burke, Paul Carini, Jong-Deok Choi

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We present practical approximation methods for computing and representing interprocedural aliases for a program written in a language that includes pointers, reference parameters, and recursion. We present the following contributions: (1) a framework ...

Keywords: interprocedural analysis, pointer aliasing, program analysis

16 A text-compression-based method for code size minimization in embedded systems Stan Liao, Srinivas Devadas, Kurt Keutzer January 1999 **Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 4 Issue 1**Publisher:** ACM Full text available:  Pdi (184.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 33, Downloads (Overall): 436, Citation Count: 22

We address the problem of code-size minimization in VLSI systems with embedded DSP processors. Reducing code size reduces the production cost of embedded systems we use data-compression methods to develop code-size minimization strategies. In our framework, ...

Keywords: code size optimization, compression**17 A database model for object dynamics** M. P. Papazoglou, B. J. Krämer May 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 2**Publisher:** Springer-Verlag New York, Inc.Full text available:  Pdi (313.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 39, Downloads (Overall): 376, Citation Count: 8

To effectively model complex applications in which constantly changing situations can be represented, a database system must be able to support the runtime specification of structural and behavioral nuances for objects on an individual or group basis. ...

Keywords: Dynamic class hierarchy, Dynamic object re-classification, Object migration, Object role model, Object-oriented database systems**18 Search and strategies in OPL** Pascal Van Hentenryck, Laurent Perron, Jean-François Puget October 2000 **Transactions on Computational Logic (TOCL)**, Volume 1 Issue 2**Publisher:** ACM Full text available:  Pdi (169.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 90, Downloads (Overall): 688, Citation Count: 9

OPL is a modeling language for mathematical programming and combinatorial optimization. It is the first language to combine high-level algebraic and set notations from mathematical modeling languages with a rich constraint language and the ability to ...

Keywords: combinatorial optimization, constraint programming, modeling languages, search

19 Clarifying the fundamentals of HTTP

 Jeffery C. Mogul

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available:  Pdf (157.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 90, Downloads (Overall): 916, Citation Count: 2

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, ...

Keywords: HTTP, protocol design

20 Register tiling in nonrectangular iteration spaces

 Marta Jiménez, José M. Llacería, Agustín Fernández

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Loop tiling is a well-known loop transformation generally used to expose coarse-grain parallelism and to exploit data reuse at the cache level. Tiling can also be used to exploit data reuse at the register level and to improve a program's ILP. However, ...

Keywords: Data reuse, locality, loop optimization, loop tiling, register level

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